

CLAIMS

New claims:

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33. A shaft drive device for a pointer of a gauge instrument, comprising a printed circuit board with a dial; a rotor device with a rotor and a rotor shaft attached to said rotor; a pointer arranged on said rotor shaft; a stator device for driving said rotor with said rotor shaft; an attachment device for attaching said rotor device and said stator device to said printed circuit board device in such a way that said printed circuit board device forms a part of a frame surrounding said rotor shaft, said rotor shaft being provided with at least one radial bearing bush, said printed circuit board device having an axial bearing bush cooperating with said at least one radial bearing bush.

34. A shaft drive device for a pointer of a gauge instrument, comprising a printed circuit board with a dial; a rotor device with a rotor and a rotor shaft attached to said rotor; a pointer arranged on said rotor shaft; a stator device for driving said rotor with said rotor shaft; an attachment device for attaching said rotor device and said stator device to said printed circuit board device in such a way that said printed circuit board device forms a part of a frame surrounding said rotor shaft, wherein said stator device is

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attached to an insert, wherein said attachment device is formed so that it axially supports said rotor shaft on an opposite side of said printed circuit board device, and wherein said attachment device having a lid which is attachable to a side of said printed circuit board device facing away from said tile and which has an axial bearing bush for receiving a corresponding end of said rotor shaft.

35. A shaft drive device for a pointer of a gauge instrument, comprising a printed circuit board with a dial; a rotor device with a rotor and a rotor shaft attached to said rotor; a pointer arranged on said rotor shaft; a stator device for driving said rotor with said rotor shaft; an attachment device for attaching said rotor device and said stator device to said printed circuit board device in such a way that said printed circuit board device forms a part of a frame surrounding said rotor shaft, wherein said printed circuit board has first and second sides, wherein said dial and said pointer are arranged on said first side of said printed circuit board device and wherein said stator device, said rotor device and said lid are arranged on said second side of said printed circuit board.

Amended claims:

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16. A shaft drive device for a pointer of a gauge instrument, comprising a printed circuit board; a dial arranged on a front side of said printed circuit board; a rotor device with a rotor and a rotor shaft attached to said rotor; a pointer arranged on said rotor shaft; a stator device for driving said rotor with said rotor shaft; an attachment device for attaching said rotor device and said stator device to said printed circuit board device in such a way that said printed circuit board device forms a part of a frame surrounding said rotor shaft.

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19. A shaft drive device as defined in claim 33, wherein said axial bearing bush is formed of one piece with said printed circuit board device.

20. A shaft drive as defined in claim 33, wherein said axial bearing bush is formed as an insert receivable in said printed circuit board device.

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22. A shaft drive device as defined in claim 17, wherein said rotor device is attachable to said printed circuit board device about an entire

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periphery of said leadthrough opening for said rotor shaft in said printed circuit board device.

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24. A shaft drive device as defined claim 23, wherein said attachment device has a lid formed so that it axially supports said rotor shaft on an opposite side of said printed circuit board device.

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26. A shaft drive device as defined in claim 34, wherein said lid is locked in said printed circuit board device.